

Amendments to the Claims

Please amend the claims as follows:

1-10. (Cancelled)

11. (Currently Amended) An immunogenic composition comprising a polypeptide comprising:

a) a polypeptide comprising an amino acid sequence sharing at least 85% identity with SEQ ID NO:34 or an antigenic fragment of at least 15 contiguous amino acids of SEQ ID NO:34;

b) FHA; and

c) pertussis toxin; and

~~d) at least one different Bordetella antigen selected from the group consisting of:~~

~~A) at least one Bordetella iron acquisition protein selected from the group consisting of a polypeptide sharing at least 70% identity with SEQ ID NO: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, or 28, or an antigenic fragment of at least 15 contiguous amino acids from SEQ ID NO: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, or 28;~~

~~B) at least one Bordetella lipoprotein selected from the group consisting of a polypeptide sharing at least 70% identity with SEQ ID NO: 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, or 98 or an antigenic fragment of at least 15 contiguous amino acids from SEQ ID NO: 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, or 98;~~

~~C) at least one Bordetella adhesin selected from the group consisting of fimbriae 2 and/or 3, or pertactin; and~~

~~D) at least one Bordetella toxin/invasin or antigens involved in toxin/invasin secretion selected from the group consisting of adenylate cyclase, dermonecrotic toxin (Dnt), Type III ss or lipopolysaccharide~~

12-52. (Cancelled)

53. (Previously presented) The immunogenic composition of claim 11 comprising a polypeptide that is expressed during the Bvg⁺ early phase of Bordetella infection.

54. (Previously presented) The immunogenic composition of claim 11 comprising a polypeptide that is expressed during the Bvg⁺ late phase of Bordetella infection.

55-64. (Cancelled)

65. (Previously presented) A vaccine comprising the immunogenic composition of claim 11.

66. (Original) The vaccine of claim 65 comprising an adjuvant.

67-72. (Cancelled)

73. (New) An immunogenic composition comprising:

- a) a polypeptide comprising an antigenic fragment of at least 15 contiguous amino acids of SEQ ID NO:34;
- b) FHA; and
- c) pertussis toxin.

74. (New) An immunogenic composition comprising:

- a) a polypeptide comprising the amino acid sequence of SEQ ID NO:34;
- b) FHA; and
- c) pertussis toxin.